\$EPA

Implementation Strategy For The Clean Air Act Amendments Of 1990

Update, May 1994

INTRODUCTION

his is the fourth in a series of Implementation Strategy documents issued to inform Congress and the public on the status of activities implementing the Clean Air Act Amendments of 1990. The paragraphs immediately following present highlights of the past year's activities, as well as a summary of achievements to date. The remainder of the document consists of a cumulative list of significant actions already taken to carry out the 1990 Amendments, as well as a two-year projection of future activities.

An overarching Clean Air Act goal of this Administration is to restore the confidence of key constituenciesincluding Congress, business, state and local governments. and environmental and health advocates-in EPA's commitment and competence to carry out the mandates of the Act. To accomplish this, we are streamlining our internal processes and working with OMB to cut lag times and meet deadlines for regulations, reports, and State Implementation Plan (SIP) approvals. We recently announced a reform of EPA's rule development system which is expected to achieve substantial reductions in the time it takes to move a rule through EPA, and we have negotiated with OMB to obtain review exemptions for a substantial percentage of our rules-about 30 percent have been exempted to date, and we expect this to increase as we both become more comfortable with the exemption process. The combined effect of these reforms will greatly help us meet our deadlines.

HIGHLIGHTS OF THE PAST YEAR

he past year has been notable for EPA achievements in breaking the gridlock on proposing or finalizing a number of challenging and important Clean Air Act rules. Among the highlights of the year's activities are the following:

Attainment of Air Quality Standards

• The Clean Air Act is working to bring cleaner air to our nation's cities. Air quality data for 1992 show that 46 of the 98 ozone areas and 21 of 41 carbon monoxide areas originally designated as "non-attainment areas" after the 1990 Amendments were signed into law now have air quality in line with national health standards. Many are now going through the process of meeting the Act's requirements for being redesignated as meeting the standards. Of the ozone areas, 25 have formally submitted requests, and four areas already have been redesignated.

• Final rules were published requiring that Federally-approved development activities help to achieve air-quality goals by conforming to requirements of the Clean Air Act; consensus on these highly controversial rules was reached via an unprecedented consultation process among Federa agencies and air-quality officials.

Air Toxics Control

- A final rule was issued controlling toxic air emissions from chemical plants, reducing toxic emissions by one billion pounds annually. Final rules were also issued for steel industry coke ovens and dry cleaners.
- Rules were proposed for controlling toxic air emissions from seven more industry categories: commercial sterilizers, magnetic tape coating operations, gasoline marketing, chromium electroplating, pulp and paper production, industrial cooling towers, and degreasing operations.
- A comprehensive study of air toxics from automobiles was published, which will be used to assess the need for future controls.

Control of Emissions from Vehicles and Fuels

- Final rules were published on reformulated gasoline and emission standards for heavy-duty non-road engines.
- Final standards were published to reduce particulates from urban buses by over 90 percent.
- A final rule was published controlling emissions from automobile refueling via onboard vapor recovery, breaking years of gridlocked debate on this issue.

Protection of Stratospheric Ozone

• A number of final rules protecting stratospheric ozone were published, most notably the rule accelerating to 1995 the phaseout of the most harmful ozone-depleting sub-

stances, including CFCs. Other rules include a refrigerant recovery rule, a ban on nonessential products, a requirement to label products made with ozone-harming substances, and rules promoting safe substitutes for these substances and requiring Federal agencies to avoid procuring ozone-depleting substances.

• Late this spring, a joint EPA-National Weather Service project will begin producing daily forecasts of ultraviolet radiation for several U.S. cities. Television weather forecasters are expected begin advising the public each night if extra care should be taken the next day to limit exposure to the sun -- for example, by applying sunscreen or wearing sunglasses.

NOx Control to Prevent Acid Rain and Smog

 A final rule was published controlling powerplant NOx emissions as part of the acid rain program. Several alternative control technology documents for NOx control also were published.

Enforcement

- A proposed rule was published establishing an enhanced emissions monitoring program for all major sources covered by the Clean Air Act.
- EPA levied the largest penalty ever under the Clean Air Act (\$11.1 million) against the Louisiana-Pacific Corporation for failure to comply with permitting procedures under the Act. The settlement requires state-of-the-art control equipment which will reduce emissions of particulates, carbon monoxide and volatile organic compounds by more than 20,000 tons per year.
- Rules were proposed to provide monetary awards to citizens who uncover violations of the Clean Air Act, and to allow Federal inspectors to issue on-the-spot notices of violation for non-compliance with Federal rules.

Economic Incentives

- A final rule was published promoting and providing guidelines for the use of economic incentives in Clean Air Act programs.
- Two major elements of the market-based emissions trading system for the acid rain control program -- the allowance tracking system and the allowance allocations rule -- were put in place. The innovative system of marketable allowances is expected to cut cleanup cost by half compared to a comparable non-market program.

In addition to these rulemaking highlights, a large number of important supporting actions were taken, including publishing of several kinds of guidance documents for use by the States, and approving/disapproving submittals of State plans to achieve air quality standards. Many of these activities are listed in the cumulative schedule presented later in this report.

SUMMARY OF ACHIEVEMENTS SINCE ENACTMENT

Both in terms of emission reductions and number of rulemakings, EPA has now completed a large portion of the rulemaking actions set out by Congress in the 1990 Amendments. As of the end of March, over 200 actions have been published in the Federal Register—113 rules have been proposed, and 88 of these have been completed. The rules already completed will control emissions from the most important air pollution sources, and account for more than 90 percent of the 57 billion pounds of emissions reductions expected from the 1990 Amendments. The remainder of the rules already proposed and under development, when completed, will account for much of the remainder. A summary of the most important of these rulemakings follows.

Preventing Acid Rain

• We have nearly completed rules implementing the Acid Rain Program, an innovative market-based program to protect our lakes, streams and other resources from acidrain-causing sulfur dioxide and nitrogen oxide emissions.

Protecting the Ozone Layer

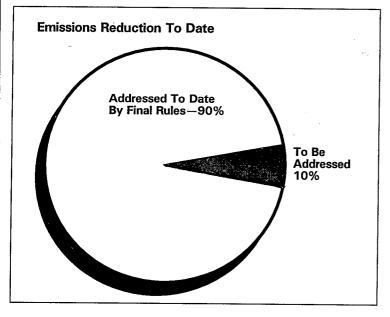
- We have issued all of the major rules needed to implement the CAA's program for protecting the stratospheric ozone layer. The rules require a gradual phase-out of the production of ozone-depleting chemicals, the labeling of products containing or manufactured with ozone-depleting chemicals, and the recycling of ozone-depleting compounds.
- These rules, in combination with international restrictions, are expected to halt erosion of the ozone layer. International agreements to phase out ozone-depleting chemicals, in which the United States played a leading role, already have slowed the rate of increase of CFC concentrations in the stratosphere. Ozone concentrations are expected to recover eventually to levels observed prior to 1985 if these measures continue to be implemented.

Cleaning up Fuels and Vehicles

• We have issued 15 major final or proposed rules that will cut motor vehicle emissions and help to bring clean air to our nation's cities. Among these are final rules on tier I tailpipe standards, on-board diagnostic devices, evaporative emissions controls, cold-start carbon monoxide standards, reformulated gasoline, heavy-duty non-road engine standards, clean fuel fleet programs, urban bus standards, and on-board vapor recovery.

Controlling Air Toxics

• We have laid the foundation for cutting toxic emissions from all major pollution sources by issuing several critical rules and beginning to move large numbers of additional rules through the regulatory pipeline. In addition to the aforementioned final rules for the chemical industry, coke



ovens, and dry cleaners, air-toxics rulemakings for about 40 source categories are now in progress. Most of these efforts have moved forward quickly since January 1993. Several rules have been proposed recently, and many more are to be proposed during the next two years.

• While moving forward with standards, EPA has also established the groundwork for the air toxics program by issuing essential program infrastructure rules -- for example, general provisions for monitoring and other "housekeeping" requirements that will apply to all regulated industries, and rules for delegating the air toxics program to the states.

Protecting Urban Air Quality

- We have published extensive guidance to help states develop and implement plans for bringing urban air quality into line with federal standards by deadlines established in the Act.
- We have issued guidance and regulations for state operating permit programs which will improve administration and enforcement of CAA requirements.

NEW DIRECTIONS IN IMPLEMENTATION

A lthough EPA has made great progress in carrying out the Clean Air Act, the success of the Act is far from guaranteed. Much remains to be done if the Act's health and environmental goals are to be achieved. EPA must issue over a hundred more regulations and guidance documents, as well as dozens of mandated studies and reports. The largest group of remaining rulemakings will be those controlling air-toxics emissions. Other significant future rulemakings will include emissions standards for non-road engines, standards for municipal and medical waste combustion, enhanced emissions monitoring, Federal

operating permits, and new-source review reform.

The Agency also must accelerate and expand a host of activities to ensure that EPA and states are implementing and enforcing the Act effectively. For example, EPA must assess hundreds of state implementation plan revisions, as well as 120 state and local permit programs, and provide technical assistance to states and sources. The list of significant actions following this section lists most of the significant actions expected within the next two years.

Because EPA has completed many key rules and guidance documents, the responsibility for implementation of the 1990 Amendments is shifting increasingly to state and local governments. Effective implementation at the state and local level is critical to the success of the Act. This Administration is aware of how important it is to get the Federal framework right, and to provide the right kind of guidance and support to state and local agencies. We also understand the importance of timeliness: the gridlock of the past has already delayed key Federal elements far too long. Over the past year, we have broken the regulatory gridlock in a number of areas critical to providing states the necessary support, and we intend to do an even better job in the future, so that states and industries will have the information they need, when they need it, to plan for compliance in the most effective way.

One key element the states need in crafting effective, efficient compliance program is the flexibility to use economic incentives in ways that reduce costs while assuring that the environmental goals are met. One of the principal themes of this Administration is that a healthy environment and a strong economy are not only compatible but essential to each other, and that the appropriate use of economic incentives can enhance this compatibility by providing flexibility and incentives for technological innovation. We recently took a large step in this direction by finalizing the economic incentives rule, which shows states and industries how to use incentivebased approaches that encourage advanced technologies that both save money and make it possible to get more environmental results. We also worked closely with the California South Coast Air Quality Management District to establish an innovative NOx trading program for smog control; this program is being closely watched as a possible model for other areas. We intend to continue making the use of such approaches a centrally important tool in helping the states plan for meeting the ambitious goals of the Clean Air Act. We believe that the combination of flexibility and timeliness of Federal support will prove to be the twin keys to success as the implementation of the Clean Air Act enters this next, critical stage.

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Eleite	Title	Activity	Craphd.	Stat. Deadline
Dec-90	Title I - Nonattainment			
		Issue "Getting Started" letter to Governors	Υ	
		States submit request/justification for 5 % classification adjustments	Υ	Dec-90
Jan-91		Publish two-year implementation strategy	Υ	
	Title I - Nonattainment			
		Publish notice of initial PM-10 moderate nonattainment areas	Υ	
		Initiate additional PM-10, SO ₂ , lead designation process	Υ	
	Title VI - CFCs			
		Listing of depleting substances	Υ	Jan-91
Feb-91	Title I - Nonattainment			
		Act on 5% classification adjustment requests	Υ	Feb-91
Mar-91	Title I - Nonattainment			
		States submit nonattainment area designations	Υ	Mar-91
	Title VI - CFCs			
		Direct final 1991 production limits	Υ	
Apr-91	Title I - Nonattainment			
		States submit PM-10 areas unable to attain by 1994	Y	
		States respond to list of PM-10, SO ₂ , lead nonattainment areas	Υ .	
May-91	Title I - Nonattainment			
		Notify States of intent to modify suggested boundaries	Υ	May-91
		Convene NE ozone transport commission	Υ	May-91
	Title II - Mobile Sources			
		Finalize gasoline Reid Vapor Pressure regulations	Υ	May-91
		Finalize Tier I car and truck standards	Υ	May-91
		Propose reformulated gasoline requirements	: Y	
		Propose clean fuels fleet and CA pilot credit programs	Υ	
		Propose urban bus regulations	Υ	
		Propose emission control diagnostic rule	Υ	

These dates are subject to change based on new risk assessments, court decisions, and changes in available resources.

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Date	Title	Activity	Compit.	Stat. Deadline
May-91	Title IV - Acid Rain			
		Propose regulations for auctions and sales	Y	
	Title V - Permits			
		Propose State permit regulations	Υ	
Jun-91	Title III - Air Toxics			
		Publish draft list of source categories	Υ	· .
		Propose list of high risk pollutants, 90/95% early reductions guidance	Υ	Jul-91
		Propose early reductions rulemaking	Υ	
Jul-91	Title II - Mobile Sources			
		Propose lead substitute gasoline additives	Y	
	Title VII - Enforcement			
		Propose administrative penalties rules of practice	Υ	
Sep-91	Title VI - CFCs			
		Propose CFC phase-out regulations	Υ	
		Propose mobile air conditioning recycling regulations	Υ	
Oct-91	Title I - Nonattainment			
		Publish VOC and CO emission inventory guidance	Υ	
·	Title II - Mobile Sources		ļ	-
		Publish study on non-road engines	Y	Nov-91
Nov-91	Title I - Nonattainment			
		Publish guidance on control cost-effectiveness	Υ	Nov-91
		States submit PM-10 SIPs	Partial	Nov-91
		Publish air quality and emission trends report	Υ	
		Establish Grand Canyon visibility transport commission	Υ	Nov-91
		Propose PM-10 area reclassifications	Υ	Jun-91
		Finalize ozone, CO, PM-10, and lead nonattainment boundaries	Υ	Jul-91
	Title III - Air Toxics			
		Propose MACT for dry cleaners (per court order)	Υ	
Dec-91	Title I - Nonattainment			
		Propose outer continental shelf rule	Υ	

Date	Title	Activity	Compil	Start.
Dec-91	Title IV - Acid Rain			Duacii
		Finalize regulations for auctions and sales	Y	Nov-91
· .	s · ·	Propose allowance trading system	1 Y 1 2 2 2	1407-31
	- 19.	Propose acid rain permit program	Y	-man -m
	Contract of the contract of th	Propose continuous emission monitor requirements	Y	And the second second
1		Propose excess emissions rules	Y	·
		Propose conservation and renewable incentives	- Y - 1 - 1 - 1	
Jan-92	Title V - Permits			;
	until de la companya	Publish guidance on State programs to assist small businesses	Υ	at some state of
. **	Title VI - CFCs			ter ca
	and America	Propose ban on non-essential products	Υ	
Feb-92	Title VII - Enforcement			To the second
, .		Finalize administrative penalties rules of practice	Υ	Test South
Mar-92	Title II - Mobile Sources		y.	
	and the second s	Finalize onboard controls regulatory decision	Υ	Nov-91
Apr-92	Title I - Nonattainment			
	a system a second secon	Publish Title I General Preamble	Υ	
		Propose rules for ozone, NO _x , and VOC monitoring	Υ	in the second
	Title II - Mobile Sources	the control of the co	. 11	- *
		Propose rule on reformulated gasoline SNPRM (supplemental notice of proposed rulemaking)	Y	Nov-91
May-92	Title I - Nonattainment			- · ·
		Publish guidance on TCM's (transportation control measures)	Υ	Nov-91
	Title II - Mobile Sources		· .	
* * * * * * * * * * * * * * * * * * * *	in the second se	Finalize cold temperature CO standards	Y	Nov-91
	Title VI - CFCs		•	-
		Propose CFC labeling regulations	Υ	
			- Au	
Jul-92		Revise two-year implementation strategy	Υ	
	na indiana			

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Date	Trim	Activity	Compit	Stat. Deadline			
ju l 9 2	Title I - Nonattainment						
		States submit SIPs for initial SO ₂ nonattainment areas	Partial	May-92			
	Title II - Mobile Sources						
		Propose enhanced I/M regulation	Y				
	Title III - Air Toxics						
		Publish final list of source categories	Y	Nov-91			
	Title IV - Acid Rain						
		Propose list of Phase II utility allowances	.Υ	Dec-91			
	Title V - Permits						
		Finalize State permit regulations	. Y	Nov-91			
	Title Vi - CFCs						
	-	Finalize CFC phase-out regulation	Υ	Sept-91			
		Finalize mobile air conditioning recycling regulations	Υ	Nov-91			
Aug-92	Title I - Nonattainment						
		Finalize guidance on transportation air quality planning	Y	Aug-91			
				ļ			
Sep-92	Title I - Nonattainment						
		Propose additional PM-10 nonattainment areas	Y				
		Propose discretionary sanction rules	Y				
		Finalize outer continental shelf rules	Y	Nov-91			
	Title III - Air Toxics						
		Propose regulatory schedule for all source categories	Y				
Oct-92	Title I - Nonattainment						
		Publish 1991 air quality data and emission trends report	Y				
	Title II - Mobile Sources			ļ			
		Finalize oxygenated fuel credit guideline	Y	Aug-91			
	Title III - Air Toxics						
		Propose MACT for hazardous organic chemical manufacturing	Υ				
	THE CONTRACT OF THE PROPERTY O						

Date	Title	Activity	Compit	Stat. Deadline
Nov-92	Title I - Nonattainment			
	40 E 70 E	States submit RACT catch-up rules, NSR rules, CO attainment demonstration	Partial	Nov-92
		States submit small business assistance programs	Partial	Nov-92
		States submit base ozone, CO emission inventories	Partial	Nov-92
		Finalize PM-10 BACM technical guidance	Υ	May-92
		Publish Title I NO, guidance	Υ	
	Title II - Mobile Sources			:
		Finalize enhanced I/M regulation	Υ	Nov-91
	Title IV - Acid Rain			
	*	Propose NO _x emission limits for Group 1 utility boilers	Y	A .
Dec-92	Title I - Nonattainment			
	·	Publish alternative control technology document for VOCs from bakeries	Υ	Nov-93
	Title II - Mobile Sources	And the second s		
		Propose revisions to motor vehicle certification procedures (certification short test)	Y	
		Finalize California pilot credit program	Υ	Nov-91
	Title III - Air Toxics	the second of th	-	
		Propose MACT for coke ovens	Υ	
		Finalize early reductions rulemaking	. Y ,	
	Title VI - CFCs		e s t	
	,	Propose emission reduction program	Υ	Jan-92
Jan-93	Title I - Nonattainment	and the second of the second o		
÷.		Approve/disapprove first PM-10 SIPs	Partial	Jan-93
		Finalize PM-10 area reclassifications	. Y	Dec-91
	Title II - Mobile Sources		is the second	·
		Finalize vehicle evaporative emissions regulations	Υ	Aug-93
	112 . 124	Finalize emission control diagnostic rule	Y a la s	May-92
		Publish draft mobile source air toxics study	Υ	
		Propose reformulated gasoline complex model	-	
		Finalize clean fuels fleet (TCM's)	Υ	Nov-91

Date	Title	Activity	Compit.	Stat. Deadline
				Passesinger
Jen-93	Title III - Air Toxics	Propose list of substances for accidental releases prevention program	Υ	
	Title IV - Acid Rain	Proposa list of substances for accidental relocates provention program		
	Hue IV - Acid Pain	Finalize excess emission requirements	Υ	May-92
		Finalize allowance trading system	Υ	May-92
		Finalize continuous emission monitoring requirements	Y	May-92
		Finalize conservation and renewable incentives	Υ	May-92
		Finalize acid rain permit program	Υ	May-92
	Title VI - CFCs	Thialize and fall portin program		
	1119 17 - 01 03	Finalize ban nonessential products - Class I	Y	Nov-91
Feb-93	Title I - Nonattainment			
		Finalize rules for ozone, NO _x , VOC enhanced monitoring	Υ,	May-92
		Propose economic incentive rules	Υ	
		Propose transportation conformity criteria	Υ	
	Title II - Mobile Sources			
		Finalize urban bus 94+ (PM standard)	Υ	Jan-92
		Finalize procedures of enforcement for urban bus standards	Υ	May-92
	Title IV - Acid Rain			
		Sources submit Phase I permit applications and proposed compliance plans	Y	Feb-93
	Title VII - Enforcement			
		Propose rules for citizen suits	Υ	
Mar-93	Title I - Nonattainment			
		Issue draft 185B report	Y	·
		Propose general conformity criteria	Υ	
	Title II - Mobile Sources			·
		Finalize urban bus retrofit	Υ .	Nov-91
		Finalize procedures of enforcement for urban bus standards	Υ	May-92
	Title IV - Acid Rain			
		Initiate auctions and sales of allowances	Y	Mar-93

Date	Title	Activity	Compit	Stat Deadline
Mar-93	Title IV - Acid Rain	to the second of		
		Finalize list of Phase II utility allowances	Y.	Dec-92
		Ranking by lottery of Phase I extension applications	Y (
	Title VI - CFCs			
		Propose procurement regulations		May-92
		Propose accelerated CFC phase-out	Υ'	
·		Finalize CFC labeling regulations	Υ	May-92
Apr-93	Title I - Nonattainment		3. T W	a #
		Publish alternative control technology document for VOCs from pesticide applications	Y	Nov-93
	Title II - Mobile Sources			
	a sala	Publish final mobile source related air toxics study	Υ	May-92
•	· ·	Propose non-road emission standards >50 hpr.	Ý	Nov-92
	Title III - Air Toxics			
		Propose guidance for State air toxics program 112(I)	Υ	
May-93	Title I - Nonattainment			
5		PM-10 PSD increments (11/92 court agreement)	Υ	
	Title II - Mobile Sources		Et .	
		Propose clean fuel fleet vehicle standards, conversions and general provisions	Y	Nov-92
	Title VI - CFCs			
		Propose safe alternatives	Υ	Nov-92
		Finalize emission reduction program (Section 608)	· Y .,	Jan-92
Jun-93	Title II - Mobile Sources			
		Propose California pilot, clean vehicle standards, and opt-in provisions	Y	
	Title III - Air Toxics			
		Propose rule on case-by-case MACT determination 112(j)	Υ	
	Title VI - CFCs			
		Propose Class II Non-essential ban	Υ	Nov-91
			- -	:

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Jul-93	Title I - Nonattainment			
		Publish 185B NO _x /VOC study	Υ	Feb-92
		States submit lead SIPs (18 months from designation)	Partial	Jul-93
	Title III - Air Toxics			
		Propose case-by-case MACT determination (112(j))	Υ	
	Title IV - Acid Rain			
		Begin submission of applications for Energy Conservation & Renewable Reserve	Υ	
Aug-93	Title I - Nonattainment			
		States deadline for RACT corrections	Υ	
	Title II - Mobile Sources			
		Submit transportation systems report to Congress	Υ	
	Title III - Air Toxics			
		Propose general provisions for MACT standards	Y	
		Propose MACT for industrial cooling towers	Υ	
		Section 112(s) Report	Υ	:
	Title IV - Acid Rain			
		Draft acid rain permits issued for public comment	Υ	
Sep-93	Title III - Air Toxics			
		Propose Certification Program for solid waste & fossil-fuel combustor operators	Υ	
		Finalize MACT for dry cleaners	Υ	Nov-92
		Complete study of the hazards of hydrofluoric acid	Υ	Nov-92
	Title IV - Acid Rain			
		Propose opt-in regulations combustion sources	Υ	
Oct-93	Title II - Mobile Sources			
		Finalize revisions to motor vehicle certification procedures (I/M short test)	Υ	Nov-91
		Finalize testing protocols for fuels and additives		
	Title III - Air Toxics			
		Propose rules for risk management plans and prevention programs	Υ	
		Propose MACT for pulp and paper	Υ	
		Publish study of hydrogen sulfide emissions from extracting natural gas and oil	Υ	Nov-92

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Date	Title	Activity	Compit.	Stat. Dendiine		
Oct-93	Title III - Air Toxics					
,		Finalize MACT for coke ovens	Υ	Dec-92		
	Title VI - CFCs					
		Finalize procurement regulation	Y	May-92		
	Title VII - Enforcement					
	-	Propose rules for enhanced monitoring	Υ			
Nov-93	Title I - Nonattainment					
		Publish air quality and emission trends report	.Y			
		Publish SOCMI distillation processes CTG	Υ	Nov-93		
		Publish SOCMI reactor processes CTG	Y	Nov-93		
	<u></u>	States submit selected SIP provisions for moderate and above ozone areas	Partial	Nov-93		
		Finalize general conformity criteria	Y	Nov-91		
	Title II - Mobile Sources					
		Propose detergent additive regulations	Y			
		Finalize transportation conformity rules	Y			
	Title III - Air Toxics					
	·	Publish guidance for state air toxics programs 112(l)	Υ	Nov-91		
		Propose MACT for chromium electroplating	Υ			
		Finalize regulatory schedule for all source categories	Υ	Nov-92		
		Propose Degreasing MACT	Υ			
	Title IV - Acid Rain					
f=-		States submit acid rain permit program proposals	, ,	Nov-93		
		Phase I requirement to install monitoring equipment				
	Title V - Permits	States submit operating permit programs	Partial	Nov-93		
Dec-93	Title I - Nonattainment	States submit operating permit programs	- Failiai	1407-93		
		Finalize discretionary sanctions rule	Υ			
		Finalize additional PM-10 and SQ nonattainment areas	Y			
	Title II - Mobile Sources					
		Finalize reformulated gasoline regulations	Υ.			
		Finalize reformulated gasoline complex model	Y	Nov-91		
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Date	Title	Activity	Compit.	Stat. Deadline			
Dec-93	Title III - Air Toxics						
		Finalize MACT for hazardous organic chemical manufacturing	Υ	Nov-92			
		Propose permits for early reduction sources	Υ				
	Title VI - CFCs						
		Finalize accelerated CFC phase-out	Υ				
		Finalize Class II Non-essential Ban	Υ	Nov-91			
Jan-94	Title I - Nonattainment						
		Approve/disapprove ozone & CO submittals due 11/92	Partial	Jan-94			
	Title II - Mobile Sources						
		Finalize on-board refueling vapor recovery regulations	Υ.				
	Title III - Air Toxics						
- 1.0		Finalize list of substances for accidental releases prevention program	Υ	Nov-92			
		Deliver program-specialized inspection training course at three regional locations (radionuclides)	Y				
		Develop inspection manual and training materials for coke ovens	Υ	Nov-93			
		Propose Stage I gasoline marketing MACT	Υ				
Feb-94	Title III - Air Toxics						
		Propose MACT for commercial sterilizers	Υ				
		Propose MACT for magnetic tape coating	Υ				
		Finalize general provisions for MACT standards	Υ				
		Propose guidance for modification provisions	Ý				
		Finalize MACT for hazardous organic chemical manufacturing	Υ	Nov-92			
	Title IV - Acid Rain						
		Finalize NO _x emission limits for Group I utility boilers	Υ	May-92			
Mar-94	Title I - Nonattainment						
		Finalize economic incentives rules	Υ	Nov-92			
	Title IV - Acid Rain						
		Conduct second allowance auction	Υ	Mar-94			
	_						

Date	Title	Activity	Conspit	Stat. Deadline
Mar-94	Title VI - CFCs			DESCRIPTION
		Finalize safe alternative program	Υ	
Apr-94	Title i - Nonattainment			
		Propose tank vessel rule		
	Title II - Mobile Sources			
		Propose non-road emission standards <25 HP - Phase I		Nov-93
	Title III - Air Toxics			
		Interim Report on Electric Utility Steam Generators		ye
	,	Propose MACT for polymers and resins II		Nov-94
		Finalize case-by-case MACT determinations 112(j)	. **	
	Title IV - Acid Rain			
		Begin issuing allowances to small diesel refineries		
	Title VII - Enforcement			
		Propose rules for field citation		
		Propose rule for monetary awards		
May-94	Title I - Nonattainment		· ************************************	
		Reclassify marginal ozone areas failing to attain by 11/93	÷ ,	May-94
	·	Promulgate order of sanctions rule		, , ,
	Title II - Mobile Sources			
		Finalize non-road emissions standards for >50 HP diesel engines		
		Finalize CNG/LPG vehicle standards		. 9 (1. %)
		Finalize clean fuel fleet vehicle standards, conversions, and general provisions		
-		Finalize California pilot, clean vehicle standards, and opt-in provisions		
-		Finalize fuel and fuel additives: Health effects registration requirements		
	Title III - Air Toxics			
		Publish draft risk assessment and management commission report		May-94
		Propose MACT for secondary lead smelters		
		Submit NAS study to Congress		May-93
		Issue urban area strategy - research report		Nov-93
	*	Submit Great Lakes study report to Congress		Nov-93

Date	Thie	Activity	Compit	Stat.
				Deadline
May-94	Title IV - Acid Rain			
		Propose NO _x NSPS for new fossil fuel fired boilers (utility & nonutility)		Jan-93
		Certify continuous emissions monitors for Phase I units		
Jun-94	Title I - Nonattainment			
		Approve/disapprove lead SIPs due 6/93		Jun-94
		States implement Phase II of the enhanced ozone monitoring network		
	Title II - Mobile Sources			
		Report to Congress on the Cal. low-emissions vehicle		Jun-94
		Finalize rule for renewable oxygenates for reformulated gasoline		
	Title III - Air Toxics	1		
		Propose MACT for Petroleum refineries	<u> </u>	
	Title IV - Acid Rain		_	
		Prepare implementation guidance for Phase II - affected units		
Jul-94	Title I - Nonattainment			ļ
		Publish alternative control technology documents for NO _x sources	Partial	Nov-93
	Title III - Air Toxics			
		Propose MACT standard for aerospace industry		
		Promulgate MACT standard for industrial cooling towers		
	Title IV - Acid Rain			
		EPA action on final Phase I permits		Aug-93
Aug-94	Title I - Nonattainment			
		Publish surface coal mining study		Nov-93
		Propose NSPS for cold cleaners		
		Propose NSPS for SOCMI secondary wastewater		
		Propose NSPS for starch manufacturing		
	Title II - Mobile Sources			
		Finalize lead substitute gasoline additives		Nov-91
	Title VII - Enforcement			
		Finalize rules for citizen suits		

Date	Title	Activity	Compit.	Stat.
-		·		Deadine
Sep-94	Title I - Nonattainment			
		Propose Part C & D new source review requirements		
-	- 1	Submit consumer/commercial products study report to Congress		Nov-93
	Title II - Mobile Sources			
	~ h	Propose non-road emission standards for marine engines		Nov-92
1	Title III - Air Toxics			
	,,	Final certification program for solid waste and fossil-fuel combustor operators		
		Develop inspection manual and training materials for dry cleaners		
		Propose standards for large MWC's		Nov-91
		Propose standards for small MWC's		Nov-92
-	Title VII - Enforcement			
	·	Finalize rules for enhanced monitoring		Nov-92
		Propose rule for contractor listing		
	Title VIII - Miscellaneous		-	
		Section 811 Report (International Competiveness)		May-92
-				
Oct-94	Title I - Nonattainment			
		Publish air quality and emission trends report		
		Publish results of ozone design value study		Nov-93
	Title III - Air Toxics			
		Propose MACT for solid waste TSDF		
		Final permits for early reduction sources	1	
	Title V - Permits			
		Propose Federal operating permit regulations		
-	Title VI - CFCs			-
		Listing of global warming potential		
		Report to Congress on global warming		
Nov-94	Title I - Nonattainment			
		Publish wood furniture CTG	-	Nov-93
		States submit ozone SiP's demonstrating attainment		

Delle	Title	Activity	Compil	Stat. Deadline
Nov-94	Title II - Mobile Sources			
		Propose locomotive emissions standards		Nov-95
		Finalize detergent additive regulations		Nov-92
	Title III - Air Toxics			
		Promulgate MACT for chromium electroplating operations		Nov-92
		Submit risk assessment and management commission report to Congress		Nov-94
		Promulgate MACT for commercial sterilizers		
		Promulgate degreasing MACT standard		Nov-94
		Promulgate Stage I gasoline marketing MACT		Nov-94
		Promulgate MACT for magnetic tape coatings		Nov-94
		Propose MACT for wood furniture		
	Title VII - Enforcement			
		Issue enhanced monitoring reference document		
		Finalize rules for monetary awards		
Dec-94	Title II - Mobile Sources			
Jan-95		Propose control of air toxics emissions from motor vehicles		May-95
	Title IV - Acid Rain			
		Finalize Opt-in Regulation - Combustion Sources		May-92
	Title I - Nonattainment			
***************************************		Propose NSR simplification rule		
	Title II - Mobile Sources			
		Propose revision for federal test procedures		
	Title III - Air Toxics			
		Propose MACT for shipbuilding (surface coating)		
		Propose asbestos MACT		
	Title IV - Acid Rain			
		Propose opt-in regulations - process sources		
		Publish final acid deposition standards study		Nov-93
		Phase II requirement to install monitoring equipment		

Date	Title	Activity	Compil	Stat.
Sep-95	Title I - Nonattainment			Deadline
oop-so _	Title 1 - Nortattaillileiit	Publish auto body refinishing CTG		
	, , , , , , , , , , , , , , , , , , , ,	Publish aerospace CTG	,	<u></u>
		Publish clean-up solvents CTG		· · · · · · · · · · · · · · · · · · ·
		Publish shipbuilding CTG		
	Title III - Air Toxics			
		Promulgate paper & pulp MACT		Nov-94
		Promulgate standards for large MWCs		Nov-92
		Promulgate standards for small MWCs		Nov-93
	Title V - Permits			
		Finalize Federal operating permit program		,
Oct-95	Title I - Nonattainment			
		Publish air quality and emission trends report		
	Title III - Air Toxics			
		Finalize rules for risk management plans and prevention		Nov-93
	Title IV - Acid Rain			
		Finalize opt-in regulations process sources		
	Title VII - Enforcement			
		Finalize rule for contractor listing		
Nov-95	Title II - Mobile Sources			
		Finalize marine engine emission standards		
		Finalize locomotive emission standards	,	Nov-95
	Title III - Air Toxics			
		Final MACT for solid waste TSDF		Nov-94
		Finalize MACT for wood furniture		•
		Study of electric utilities generating units		Nov-93
		Promulgate asbestos MACT		
1		Final MACT for shipbuilding (surface coatings)		Nov-94
Jan-96	Title I - Nonattainment			
		Final NSR Simplification rule		
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(Revised May 1994)					
Dese	Title	Activity	Compit.	Stat Deadline	
Jan-96	Title IV - Acid Rain				
	A	Propose Phase II Permits			
Mar-96	Title III - Air Toxics				
		Final MACT for printing/publishing industry		Nov-94	
	ALL CONTRACTOR OF THE CONTRACT	Final MACT for polymers and resins IV ¹		Nov-94	
Apr-96	Title III - Air Toxics				
		Promulgate medical waste incineration standards		Nov-94	
		Final MACT for polymers and resins IV ²		Nov-94	
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